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DEC 1970

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FIG. 1.

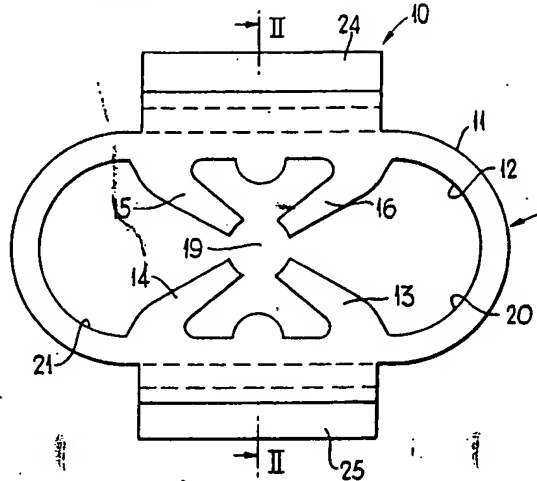


FIG. 2.

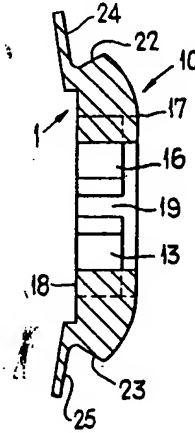
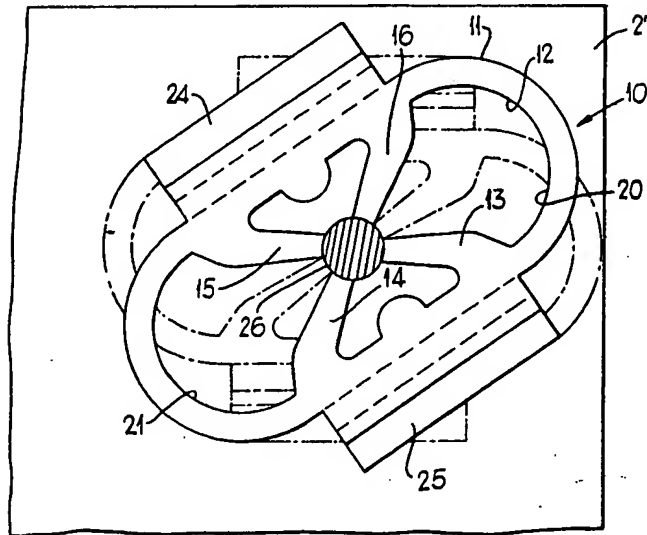


FIG. 3.



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PATENT SPECIFICATION

(11) 1216284

DRAWINGS ATTACHED

- (21) Application No. 28475/69 (22) Filed 5 June 1969
(61) Patent of Addition to No. 1 149 268 dated 29 July 1966
(31) Convention Application No. P 17 55 667.1
(32) Filed 7 June 1968 in
(33) Germany (DT)
(45) Complete Specification published 16 Dec. 1970
(51) International Classification F 16 b 21/09
(52) Index at acceptance E2B 13B 4A7U 4GU



(54) AN IMPROVED RESILIENT CLIP

(71) I, ALBERT VICTOR RAYMOND, a French citizen of 113, Cours Berriat, Grenoble, France, do hereby declare the invention, for which I pray that a patent may be granted to me and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to an improved resilient clip for attachment to a headed stud and is a modification of the clip described and claimed in the complete specification of my British Patent No. 1,149,268.

According to the present invention there is provided a resilient synthetic plastics clip for attachment to a support provided with a headed pin projecting therefrom, the clip comprising a body portion having an undersurface and an upper surface, an aperture extending there-through and four resilient tongues which project into the aperture and lie wholly within the depth of the body portion, the ends of the tongues defining a substantially circular, cylindrical bore and being arranged on two diagonals of the bore, wherein each pair of adjacent tongues defines a recess and a tapered guideway into the bore, whereby a headed stud can be passed through the recess and then moved laterally through the guideway so as to separate the end portions of the tongues and snap-engage into the bore.

A preferred form of the invention will now be described with reference to the accompanying drawing, in which:

Figure 1 is a plan view of a clip according to the present invention,

Figure 2 is a section taken on the line II—II of Figure 1, and

Figure 3 is a plan view, partly in section, showing the clip of Figure 1 engaged on a stud which projects from a support surface.

In Figure 1 a resilient synthetic plastics clip is indicated generally at 10.

The clip 10 is preferably injection moulded to the shape shown and in its finished form comprises a body portion 11 in the form of

an elongate framework defining an aperture 12 and four resilient tongues 13, 14, 15, 16 which project into the aperture 12 and lie wholly within the depth of the body portion 11. The body portion 11 has an upper surface 17 and a lower surface 18 and the depth of the tongues is slightly less than the depth of the body portion.

The end faces of the tongues 13 to 16 define a substantially circular, cylindrical bore 19 and the tongues are arranged on two diagonals of the bore 19. The pairs of tongues 13, 16 and 14, 15 define recesses 20 and 21 respectively each of which provides a tapered guideway into the bore 19.

The body portion 11 has two parallel side walls 22 and 23 which are undercut and lugs 24 and 25 respectively project outwardly from the bottom edges of the walls 22 and 23.

The clip can be attached to a headed stud 26 which projects outwardly from a support surface 27, as shown in Figure 3.

In order to attach the clip 10 to stud 26, the clip is passed downwardly over the head of the stud so that the head of the stud passes upwardly through the recess 20 or the recess 21. When the clip rests on the support surface 27 the clip is then moved sideways relative to the stud 26 so that the shank of the stud is forced between the tongues forming the guideway from the recess into the bore 19. As the shank of the stud is forced along the guideway the tongues are separated until the shank of the stud snap-engages into the bore 19. The tongues then return to their normal unstressed position and the clip is prevented from further movement in a lateral sense relative to the stud 26 by the four tongues. The head of the stud at the same time prevents removal of the clip 10 in the vertical direction since it has a diameter greater than the diameter of the bore 19 and overlies the ends of the tongues.

When the clip is attached to the stud 26 a moulding, not shown, can be snap-engaged

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over the clip in a well known manner and the clip thereafter retains the moulding on the support surface 27.

- It will be seen from Figure 3 that the clip 10 can be readily rotated on the stud 26, as shown in broken line, to position the clip correctly to receive the moulding and in addition the clip 10 can be aligned in any required angular position prior to its attachment to the stud, this being extremely useful where the stud is positioned close to a vertical face or flange on the support surface 27.

WHAT I CLAIM IS:—

1. A resilient synthetic plastics clip for attachment to a support provided with a headed pin projecting therefrom, the clip comprising a body portion having an undersurface and an upper surface, an aperture extending there-through and four resilient tongues which project into the aperture and lie wholly within the depth of the body portion, and the ends of the tongues defining a substantially circular, cylindrical bore and being arranged on two diagonals of the bore, wherein each pair of adjacent tongues defines a recess and a tapered

guideway into the bore whereby a headed stud can be passed through the recess and then moved laterally through the guideway so as to separate the end portions of the tongues and snap-engage in the bore.

2. A clip as claimed in claim 1, wherein the body portion comprises an elongate framework defining the said aperture and supporting the four tongues.

3. A clip as claimed in claim 1 or claim 2, wherein the body portion has two parallel sides which are undercut and adapted to engage a channel-shaped moulding.

4. A clip as claimed in claim 3 wherein a lug projects outwardly from the bottom of each undercut side of the body portion.

5. A clip substantially as described herein with reference to the accompanying drawings.

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Printed for Her Majesty's Stationery Office by the Courier Press, Leamington Spa, 1970.
Published by the Patent Office, 25 Southampton Buildings, London, WC2A 1AY, from which copies may be obtained.